

## REMARKS

As a preliminary matter, Applicants again request acknowledgement and consideration of the Information Disclosure Statement filed on February 13, 2006. A copy of submitted form PTO-1449 for the examiner's convenience.

Claims 1 and 5 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Hirai (JP 2003-002015) and Feijen et al. (USPN 5, 092,381). Claim 1 has been amended to include subject matter previously recited in claim 4, rendering this rejection moot. Accordingly, applicants address the examiner's rejection of claim 4 under 35 U.S.C. § 103(a) based on Hirai, Feijen and Nishizawa (USPN 4,836,262). Applicants traverse this rejection because the cited references, taken alone or in combination, fail to disclose or suggest cord-to-cord distances from a belt reinforcement layer to a belt layer and from the belt reinforcement layer to a carcass layer that are each between 0.5 mm and 1.5 mm, as now recited in claim 1.

Hirai discloses a tire including a belt layer disposed on a radially outer peripheral part of a carcass layer, and a reinforcing layer made up of cords extending substantially in the tire circumferential direction disposed radially outward of the belt layer. Additionally, the examiner cites Feijen to disclose the use of polyethylene terephthalate (PET) yarn having a load between 4.5N and 150N at 5% elongation. However, as acknowledged by the examiner on page 5 of the outstanding office action, neither Hirai nor Feijen discloses cord-to-cord distance between reinforcing elements in the layers of the tire. Instead, the examiner relies on Nishizawa to disclose this feature.

Nishizawa teaches that the shortest vertical distance  $L$  between the most adjacent metal filaments in opposed metal cord between adjoining metal cord layers is within a range of 0.5 mm to 1.3 mm. However, the vertical distance  $L$  disclosed in Nishizawa is different from the cord-to-cord distance recited in claim 1 of the present application. Firstly, the distance  $L$  disclosed by Nishizawa is not a true cord-to-cord distance. Instead, the distance  $L$  merely measures vertical displacement between cords. That is, the measurement fails to account for any horizontal displacement between adjacent cords. Thus, it is impossible to determine an actual cord-to-cord distance between most adjacent cords in Nishizawa based only on the distance  $L$ .

Secondly, the vertical distance  $L$  disclosed by Nishizawa is the distance between metal filaments in adjoining metal cord layers. That is, the reference discloses measuring the vertical distance between metal filaments in two adjacent belt layers, and not cord-to-cord distance between a belt reinforcement layer and a belt layer or between a belt reinforcement layer and a carcass layer. Additionally, Nishizawa only teaches that the vertical distance between filaments in adjacent layers is within the range of 0.5 mm and 1.3 mm. At least the belt reinforcement layer and the carcass layer as recited in claim 1 are not adjacent layers.

Claim 1 of the present application recites that the cord-to-cord distances from the belt reinforcement layer to the belt layer and from the belt reinforcement layer to the carcass layer are set between 0.5 mm and 1.5 mm. Maintaining a relatively small cord-to-cord distance advantageously helps to reduce road noise generated by the tire. However,

when cord-to-cord distances are reduced to less than 0.5 mm, the cords may be in contact with one another after vulcanization, which reduces high speed durability of the tire. Moreover, when the cord-to-cord distances are larger than 1.5 mm, the tires become less effective at reducing road noise. Since Hirai, Feijen, and Nishizawa, taken alone or in combination, fail to disclose or suggest this feature, applicants respectfully request that the rejection of claims 1 and 5 be withdrawn.

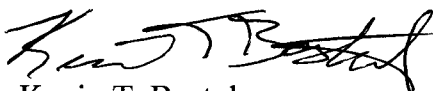
Claim 3 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Hirai and Feijen in view of Poque (DE 4209817). Claim 3 depends from claim 1, and thus includes all the features of claim 1, plus additional features. Accordingly, applicants request the rejection of claim 3 be withdrawn in light of the above arguments directed to claim 1, and because Poque fails to remedy the deficiencies identified with respect to the rejection of claim 1.

For all of the above reasons, applicants believe that this case is in condition for allowance, which is respectfully requested. The examiner should call applicants' attorney if an interview would expedite prosecution.

If a Petition under 37 C.F.R. §1.136(a) for an extension of time for response is required to make the attached response timely, it is hereby petitioned under 37 C.F.R. §1.136(a) for an extension of time for response in the above-identified application for the period required to make the attached response timely. The Commissioner is hereby authorized to charge fees which may be required to this application under 37 C.F.R. §§1.16-1.17, or credit any overpayment, to Deposit Account No. 07-2069.

Respectfully submitted,

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Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Masatoshi Kuwajima
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	OGW-0418

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	BA	JP	2001-180220-A	07-03-2001	The Yokohama Rubber Co., Ltd.		✓
	BB	JP	2001-063312-A	03-13-2001	BRIDGESTONE CORP		✓
	BC	JP	06-247105-A	09-06-1994	BRIDGESTONE CORP		✓
	BD	JP	2002-046411-A	02-12-2002	BRIDGESTONE CORP		✓
	BE	JP	61-275005-A	12-05-1986	BRIDGESTONE CORP		✓
	BF	JP	04-138901-A	05-13-1992	TOYO TIRE & RUBBER CO LTD		✓

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	International Search Report, November 16, 2004	

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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